	Learning	to Fly: The Wright B	rother's Adventure		
	2004 Science				
		Performance Star	ndards		
Georgia Science					
Grade 6					
Activity/Lesson	State	Standards			
The Society	GA	SCI.6.S6CS9.b	Scientists often collaborate to design research. To prevent bias, scientists conduct independent studies of the same questions.		
			Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with		
The Society	GA	SCI.6.S6CS9.c	other scientists and society.		
Meet the Wrights	GA	SCI 6 S6CS6 h	Understand and describe how writing for scientific purposes is different than writing for literary purposes.		
Wieet the Wrights	OA .	301.0.30030.0	interary purposes.		
Meet the Wrights	GA	SCI.6.S6CS9.b	Scientists often collaborate to design research. To prevent bias, scientists conduct independent studies of the same questions. Accurate record keeping, data sharing, and replication of results are essential for		
			maintaining an investigator's credibility with		
Meet the Wrights	GA	SCI.6.S6CS9.c	other scientists and society.		
1900: Kitty Hawks	GA	SCI.6.S6CS4.c	Read analog and digital meters on instruments used to make direct measurements of length, volume, weight, elapsed time, rates, and temperature, and choose appropriate units for reporting various quantities. Understand and describe how writing for		
1900: Kitty Hawks	GA	SCI.6.S6CS6.b	scientific purposes is different than writing for literary purposes.		
1900: Kitty Hawks	GA		Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society.		
1901: The First			Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with		
Improvement	GA	SCI.6.S6CS9.c	other scientists and society. Use appropriate technology to store and retrieve scientific information in topical, alphabetical, numerical, and keyword files,		
New Data	GA	SCI.6.S6CS4.a	and create simple files.		
New Data	GA	SCI.6.S6CS4.c	Read analog and digital meters on instruments used to make direct measurements of length, volume, weight, elapsed time, rates, and temperature, and choose appropriate units for reporting various quantities.		

			When now experimental regults are
			When new experimental results are
			inconsistent with an existing, well- established theory, scientists may require
			further experimentation to decide whether
New Date	C A	SCI.6.S6CS8.b	the results are flawed or the theory requires
New Data	GA	SCI.6.S6CS8.D	modification.
			Scientists often collaborate to design
			research. To prevent bias, scientists conduct
New Data	GA	SCI 6 S6CS9 h	independent studies of the same questions.
Now Bala		001.0.00000.5	Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
New Data	GA	SCI 6 S6CS9 c	other scientists and society.
New Bala		001.0.00003.0	Identify several different models (such as
			physical replicas, pictures, and analogies)
			that could be used to represent the same
			thing, and evaluate their usefulness, taking
1902: Success at			into account such things as the model's
Last	GA	SCI 6 S6CS5 h	purpose and complexity.
Last		001.0.00003.0	Identify several different models (such as
			physical replicas, pictures, and analogies)
			that could be used to represent the same
			thing, and evaluate their usefulness, taking
1903: Powered			into account such things as the model's
Flight	GA	SCI 6 S6CS5 b	purpose and complexity.
i iigiit		001.0.00000.5	Organize scientific information using
1903: Powered			appropriate tables, charts, and graphs, and
Flight	GA	SCI.6.S6CS6.c	identify relationships they reveal.
			Understand and describe how writing for
1904: Improvement			scientific purposes is different than writing for
in Dayton	GA	SCI.6.S6CS6.b	literary purposes.
	Learning to Fly		rother's Adventure
	Da	2004 Science	
Georgia Science	Pe	erformance Star	laaras
Grade 7			
Activity/Lesson	State	Standards	
1 1,1 1 1 1 1 1 1			Question the value of arguments based on
			small samples of data, biased samples, or
The Society	GA	SCI.7.S7CS7.c	samples for which there was no control.
			Scientists often collaborate to design
			research. To prevent this bias, scientists
			conduct independent studies of the same
The Society	GA	SCI.7.S7CS9.d	·
			Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
The Society	GA	SCI.7.S7CS9.e	other scientists and society.

Moot the Wrighte	CA	SCI 7 S7CS0 d	conduct independent studies of the same
Meet the Wrights	GA	SCI.7.S7CS9.d	Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
1900: Kitty Hawks	GA	SCI 7 S7CS0 o	other scientists and society.
1900. Kitty Hawks	GA	301.7.37039.6	Understand that different models (such as
1901: The First			physical replicas, pictures, and analogies)
Improvement	GA	SCL7 S7CS5 b	can be used to represent the same thing.
mprovement		001.11.01.000.5	Scientific experiments investigate the effect
1901: The First			of one variable on another. All other
Improvement	GA	SCI.7.S7CS9.c	variables are kept constant.
			Use appropriate technology to store and
			retrieve scientific information in topical,
			alphabetical, numerical, and keyword files,
New Data	GA	SCI.7.S7CS4.a	and create simple files.
			When new experimental results are
			inconsistent with an existing, well-
			established theory, scientists may pursue
			further experimentation to determine whether
Ni. Data		001 7 07000 1	the results are flawed or the theory requires
New Data	GA	SCI.7.S7CS8.b	
			Scientific experiments investigate the effect
New Data	GA	SCI 7 S7CS0 o	of one variable on another. All other variables are kept constant.
New Data	GA	301.7.37039.0	Scientists often collaborate to design
			research. To prevent this bias, scientists
			conduct independent studies of the same
New Data	GA	SCI.7.S7CS9.d	
			Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
New Data	GA	SCI.7.S7CS9.e	other scientists and society.
			Analyze scientific data by using, interpreting,
			and comparing numbers in several
1902: Success at			equivalent forms, such as integers, fractions,
Last	GA	SCI.7.S7CS3.a	decimals, and percents.
4000 0			Understand that different models (such as
1902: Success at		0017.07005	physical replicas, pictures, and analogies)
Last	GA	5UI.7.57US5.b	can be used to represent the same thing.
1903: Powered	GA	9017 97094 h	Use appropriate tools for measuring objects and/or substances.
Flight	GA	301.7.37034.0	anu/or substances.
			Organize scientific information using
1903: Powered			appropriate simple tables, charts, and
	GA	SCI.7.S7CS6 c	graphs, and identify relationships they reveal.
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Flight			
Filgrit	Learning	to Fly: The Wright B	rother's Adventure
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Georgia Science			
Grade 8			
Activity/Lesson	State	Standards	
-			Scientists often collaborate to design
			research. To prevent this bias, scientists
			conduct independent studies of the same
The Society	GA	SCI.8.S8CS9.d	questions.
-			Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
The Society	GA	SCI.8.S8CS9.e	other scientists and society.
-			Accurate record keeping, data sharing, and
			replication of results are essential for
Wright Brothers:			maintaining an investigator's credibility with
1901 Glider	GA	SCI.8.S8CS9.e	other scientists and society.
			Accurate record keeping, data sharing, and
			replication of results are essential for
Wright Brothers:			maintaining an investigator's credibility with
1902 Glider	GA	SCI.8.S8CS9.e	other scientists and society.
			Accurate record keeping, data sharing, and
			replication of results are essential for
Wright Brothers:			maintaining an investigator's credibility with
1903 Flyer	GA	SCI.8.S8CS9.e	other scientists and society.
			Scientists often collaborate to design
			research. To prevent this bias, scientists
			conduct independent studies of the same
Meet the Wrights	GA	SCI.8.S8CS9.d	questions.
			Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
Meet the Wrights	GA	SCI.8.S8CS9.e	other scientists and society.
			Scientists often collaborate to design
			research. To prevent this bias, scientists
			conduct independent studies of the same
1900: Kitty Hawks	GA	SCI.8.S8CS9.d	-
			Accurate record keeping, data sharing, and
			replication of results are essential for
			maintaining an investigator's credibility with
1900: Kitty Hawks	GA	SCI.8.S8CS9.e	other scientists and society.
<u>-</u>			Scientific experiments investigate the effect
1901: The First			of one variable on another. All other
Improvement	GA	SCI.8.S8CS9.c	variables are kept constant.
			Scientists often collaborate to design
			research. To prevent this bias, scientists
1901: The First		001 - 0-00-	conduct independent studies of the same
Improvement	GA	SCI.8.S8CS9.d	
			Demonstrate the effect of balanced and
1901: The First		001 - 0	unbalanced forces on an object in terms of
Improvement	GA	SCI.8.S8P3.b	gravity, inertia, and friction.

Rew Data GA SCI.8.S8CS4.a and create simple files. When new experimental results are inconsistent with an existing, well-established theory, scientists may pursue further experimental incompanient with an existing, well-established theory, scientists may pursue further experimentation to determine whether the results are flawed or the theory requires Mew Data GA SCI.8.S8CS9.b modification. Scientific experiments investigate the effect of one variable on another. All other variables are kept constant. Scientifics often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions. Rew Data GA SCI.8.S8CS9.d Scientific of the same questions. New Data GA SCI.8.S8CS9.d Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents. Understand that different models (such as physical replicas, pictures, and analogies) and scientific india different models (such as physical replicas, pictures, and analogies) and propriate tools and units for measuring objects and/or substances. Understand that different models (such as physical replicas, pictures, and analogies) and propriate tools and units for measuring objects and/or substances. Understand that different models (such as physical replicas, pictures, and analogies) and physical replicas, pict		-		Use appropriate technology to store and
New Data GA SCI.8.S8CS4.a and create simple files. When new experimental results are inconsistent with an existing, well-established theory, scientifist any pursue further experimentation to determine whether the results are flawed or the theory requires modification. Scientific experiments investigate the effect of one variable on another. All other variables are kept constant. Scientific experiments investigate the effect of one variables are kept constant. Scientific experiments investigate the effect of one variables are kept constant. Scientifics often collaborate to design research. To prevent this bias, scientifists conduct independent studies of the same questions. New Data GA SCI.8.S8CS9.d Accurate record keeping, data sharing, and replication of results are essential for maintaining an investigator's credibility with other scientists and society. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents. Understand that different models (such as physical replicas, pictures, and analogies) to can be used to represent the same thing. Use appropriate tools and units for Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing. Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing. Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing. Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing. Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing. Organize scientific information in appropriate tools and units for relationships they reveal. Learning to Fly: The Wright Brother's Adventure 2004 Science Performance Standards Sci.9- Scientists use p				Use appropriate technology to store and
New Data GA SCI.8.S8CS4.a and create simple files. When new experimental results are inconsistent with an existing, well-established theory, scientists may pursue further experimentation to determine whether the results are flawed or the theory requires Mow Data GA SCI.8.S8CS8.b Scientific experiments investigate the effect of one variable on another. All other scientific experiments investigate the effect of one variable on another. All other scientific experiments investigate the effect of one variables are kept constant. Scientifists often collaborate to design research. To prevent this bias, scientists conduct independent studies of the same questions. New Data GA SCI.8.S8CS9.d QA SCI.8.S8CS9.e other scientists and society. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, and ecimals, and percents. 1902: Success at Last GA SCI.8.S8CS9.b SCI.8.S8CS3.b GA SCI.8.S8CS4.b Understand that different models (such as physical replicas, pictures, and analogies) can be used to represent the same thing. Use appropriate tools and units for because the same thing. Use appropriate tools and units for because the same thing. Use appropriate tools and units for because the same thing. Use appropriate tools and units for because the same thing. Organize scientific information in appropriate tables, charts, and graphs, and identify relight GA SCI.8.S8CS6.c SCI.8				·
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New Data GA SCI.8.S8CS9.c variables are kept constant.	New Data	GA	SCI.8.S8CS8.b	
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The Society GA c scientific activity and reporting. SCI.9- Scientists use practices such as peer review and publication to reinforce the integrity of				·
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12.PS.SCSh8. and publication to reinforce the integrity of			SCI.9-	
			12.PS.SCSh8.	
	Meet the Wrights	GA	С	scientific activity and reporting.

			Explain that further understanding of
		SCI.9-	scientific problems relies on the design and
		12.PS.SCSh1.	execution of new experiments which may
1900: Kitty Hawks	GA	С	reinforce or weaken opposing explanations.
,		SCI.9-	
		12.PS.SCSh6.	Write clear, coherent laboratory reports
1900: Kitty Hawks	GA	a	related to scientific investigations.
,		SCI.9-	
1901: The First		12.PS.SCSh4.	Use technology to develop, test, and revise
Improvement	GA	С	experimental or mathematical models.
			Apply Newton's three laws to everyday
		SCI.9-	situations by explaining the following
1901: The First		12.PS.SPS8.b.	(Relationship between force, mass and
Improvement	GA	2	acceleration)
		SCI.9-	Apply Newton's three laws to everyday
1901: The First		12.PS.SPS8.b.	situations by explaining the following (Equal
Improvement	GA	3	and opposite forces)
			Explain that further understanding of
		SCI.9-	scientific problems relies on the design and
		12.PS.SCSh1.	execution of new experiments which may
New Data	GA	С	reinforce or weaken opposing explanations.
		SCI.9-	
		12.PS.SCSh3.	Collect, organize and record appropriate
New Data	GA	С	data.
		SCI.9-	
		12.PS.SCSh4.	Develop and use systematic procedures for
New Data	GA	а	recording and organizing information.
		SCI.9-	Use data as evidence to support scientific
l		12.PS.SCSh6.	arguments and claims in written or oral
New Data	GA	C	presentations.
		SCI.9-	
		12.PS.SCSh7.	Universal principles are discovered through
New Data	GA	b	observation and experimental verification.
		SCI.9-	Scientific investigators control the conditions
N 5 /		12.PS.SCSh8.	of their experiments in order to produce
New Data	GA	а	valuable data.
			Scientific researchers are expected to
		001.0	critically assess the quality of data including
		SCI.9-	possible sources of bias in their
N. B.G.		12.PS.SCSh8.	investigations' hypotheses, observations,
New Data	GA	b	data analyses, and interpretations.
			Evoloin that further we devote a diverse.
		001.0	Explain that further understanding of
1000, 0,,,,,,,,		SCI.9-	scientific problems relies on the design and
1902: Success at	C A	12.PS.SCSh1.	execution of new experiments which may
Last	GA	C	reinforce or weaken opposing explanations.
1002, Success of		SCI.9-	Lieu te chaple au te develor test and revier
1902: Success at	C A	12.PS.SCSh4.	Use technology to develop, test, and revise
Last	GA	C	experimental or mathematical models.

	T		
			Explain that further understanding of
		SCI.9-	Explain that further understanding of scientific problems relies on the design and
1903: Powered		12.PS.SCSh1.	execution of new experiments which may
Flight	GA		reinforce or weaken opposing explanations.
i ligiti	GA	SCI.9-	Telliforce of weaker opposing explanations.
1903: Powered		12.PS.SCSh3.	Graphically compare and analyze data points
Flight	GA	d	and/or summary statistics.
i ligiti	0/1	SCI.9-	dia/or duminary stationes.
1903: Powered		12.PS.SCSh4.	Use technology to produce tables and
Flight	GA	b	graphs.
9		SCI.9-	9.54
1903: Powered		12.PS.SCSh4.	Use technology to develop, test, and revise
Flight	GA	С	experimental or mathematical models.
3		SCI.9-	Trace the source on any large disparity
1903: Powered		12.PS.SCSh5.	between estimated and calculated answers
Flight	GA	a	to problems.
		SCI.9-	
1903: Powered		12.PS.SCSh5.	Consider possible effects of measurement
Flight	GA	b	errors on calculations.
		SCI.9-	Use data as evidence to support scientific
1904: Improvement		12.PS.SCSh6.	arguments and claims in written or oral
in Dayton	GA	С	presentations.
			Apply Newton's three laws to everyday
		SCI.9-	situations by explaining the following
1904: Improvement		12.PS.SPS8.b.	
in Dayton	GA	2	acceleration)
		SCI.9-	Apply Newton's three laws to everyday
1904: Improvement		12.PS.SPS8.b.	, , , , , , , , , , , , , , , , , , , ,
in Dayton	GA	3	and opposite forces)
	I compine to) and boule Advisorations
	Learning to	riy: The Wright E	Brother's Adventure
		Performance Sta	
Georgia Science		Performance Sta	ndards
Grades 9-12 (Physic	ne)		
Activity/Lesson	State	Standards	
Activity/Lesson	State	Staridards	Scientists use practices such as peer review
		SCI.9-	and publication to reinforce the integrity of
The Society	GA	12.P.SCSh8.c	scientific activity and reporting.
1110 000101.9		12.11.000.110.10	Scientists use practices such as peer review
		SCI.9-	and publication to reinforce the integrity of
Meet the Wrights	GA	12.P.SCSh8.c	scientific activity and reporting.
.			Compare graphically and algebraically the
		SCI.9-	relationships among position, velocity,
Meet the Wrights	GA	12.P.SP1.c	acceleration, and time.
-			
			Explain that further understanding of
			scientific problems relies on the design and
		SCI.9-	execution of new experiments which may
1900: Kitty Hawks	GA	12.P.SCSh1.c	reinforce or weaken opposing explanations.

		SCI.9-	Write clear, coherent laboratory reports
1900: Kitty Hawks	GA	12.P.SCSh6.a	related to scientific investigations.
1900: Kitty Hawks	GA	SCI.9-	Use technology to develop, test, and revise
	GA	12.P.SCSh4.c	experimental or mathematical models.
Improvement	GA	12.7.303114.0	Compare graphically and algebraically the
1901: The First		SCI.9-	
	C A		relationships among position, velocity,
Improvement	GA	12.P.SP1.c	acceleration, and time.
4004 TI - F'1		001.0	Measure and calculate the magnitude of
1901: The First		SCI.9-	frictional forces and Newton's three Laws of
Improvement	GA	12.P.SP1.d	Motion.
			Explain that further understanding of
			scientific problems relies on the design and
		SCI.9-	execution of new experiments which may
New Data	GA	12.P.SCSh1.c	reinforce or weaken opposing explanations.
		SCI.9-	Collect, organize and record appropriate
New Data	GA	12.P.SCSh3.c	data.
		SCI.9-	Develop and use systematic procedures for
New Data	GA	12.P.SCSh4.a	recording and organizing information.
			Use data as evidence to support scientific
		SCI.9-	arguments and claims in written or oral
New Data	GA	12.P.SCSh6.c	presentations.
		SCI.9-	Universal principles are discovered through
New Data	GA	12.P.SCSh7.b	observation and experimental verification.
	-		Scientific investigators control the conditions
		SCI.9-	of their experiments in order to produce
New Data	GA	12.P.SCSh8.a	valuable data.
			Scientific researchers are expected to
			critically assess the quality of data including
			possible sources of bias in their
		SCI.9-	investigations' hypotheses, observations,
New Data	GA	12.P.SCSh8.b	data analyses, and interpretations.
New Bala	071	12.1 .000110.0	data difaryoco, difa interpretationo.
			Explain that further understanding of
			scientific problems relies on the design and
1902: Success at		SCI.9-	execution of new experiments which may
Last	GA	12.P.SCSh1.c	reinforce or weaken opposing explanations.
1902: Success at	GA	SCI.9-	Use technology to develop, test, and revise
	GA	12.P.SCSh4.c	experimental or mathematical models.
Last	GA	12.7.303114.0	experimental of mathematical models.
			Evoloin that further understanding of
			Explain that further understanding of
4000: Davis == -!		001.0	scientific problems relies on the design and
1903: Powered		SCI.9-	execution of new experiments which may
Flight	GA	12.P.SCSh1.c	reinforce or weaken opposing explanations.
1903: Powered		SCI.9-	Graphically compare and analyze data points
Flight	GA	12.P.SCSh3.d	and/or summary statistics.
1903: Powered		SCI.9-	Use technology to produce tables and
Flight	GA	12.P.SCSh4.b	graphs.
1903: Powered		SCI.9-	Use technology to develop, test, and revise
Flight	GA	12.P.SCSh4.c	experimental or mathematical models.

			Trace the source on any large disparity
1903: Powered		SCI.9-	between estimated and calculated answers
Flight	GA	12.P.SCSh5.a	to problems.
1903: Powered		SCI.9-	Consider possible effects of measurement
Flight	GA	12.P.SCSh5.b	errors on calculations.
			Use data as evidence to support scientific
1904: Improvement		SCI.9-	arguments and claims in written or oral
in Dayton	GA	12.P.SCSh6.c	presentations.
			Compare graphically and algebraically the
1904: Improvement		SCI.9-	relationships among position, velocity,
in Dayton	GA	12.P.SP1.c	acceleration, and time.
			Explain that further understanding of
			scientific problems relies on the design and
1905: Complete a		SCI.9-	execution of new experiments which may
Flight at Last	GA	12.P.SCSh1.c	reinforce or weaken opposing explanations.